FINAL SUBSURFACE INVESTIGATION REPORT AAFE MIXED-USE BUILDING FLUSHING, NEW YORK

JCJ Architecture 404 Fifth Avenue, 3rd Floor New York, NY 10018

Mueser Rutledge Consulting Engineers 225 W. 34th Street, 14 Penn Plaza New York, NY 10122

January 13, 2017



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January 13, 2017

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Attn: George Chin

Re: Final Subsurface Investigation AAFE Mixed-Use Building Flushing, Queens, New York MRCE File 12629

Dear Mr. Chin.

In accordance with our revised proposal, dated January 14, 2016, we have completed our final subsurface investigation for the referenced project comprising construction of a new, mixed-use building in Flushing, Queens, New York. This report summarizes the results of our final boring program, including additional observations and interpretation of subsurface conditions, and notes any revisions to recommendations provided for foundation design and construction in our October 2016 Preliminary Geotechnical Report.

EXHIBITS

The following exhibits are attached:

Drawing No. S-1 Drawing No. B-1 Drawing No. GS-1 Drawing No. GS-2 Drawing No. GS-R Appendix A Appendix B

Site Location Plan **Boring Location Plan** Geologic Section A-A Geologic Section B-B Geotechnical Reference Standards MRCE Final Boring Logs Adjacent Building Records

PROJECT DATUM

Elevations herein are referenced to the North American Vertical Datum (NAVD 1988) where El. 0.0 is 1.625 feet below the Queens Borough Datum.

EXISTING SITE CONDITIONS

The project site is located at 133-04 39th Avenue in Flushing, Queens, New York, at the southeast corner of College Point Boulevard and 39th Avenue as shown on Drawing No. S-1. The site comprises Block 4973, Lot 6 with a total area of about 13,388 square feet (sq. ft.). The formerly existing structures were demolished to grade and the parking lot surface removed in November 2016.

The site is generally level at around El. +45. A concrete retaining wall supports a

drop of about 6 to 7 feet between the site lot and the gas station lot to the south. The west sidewalk also slopes down from north to south to accommodate this grade change with a retaining wall constructed along the west property line to maintain fairly level site grades.

SITE GEOLOGY

Bedrock was not encountered in any of the borings at the site. According to published data, bedrock lies about 200 feet below ground surface. The oldest and lowest sediments overlying bedrock are of Cretaceous age followed by Pleistocene age glacial deposits.

The site is at the edge of a deep valley carved into the Cretaceous Raritan clay. During the Pleistocene, a series of glaciers flowed across the region. The glaciers scoured the valley deeper, reworked the clay, and redeposited it as glacial sediments. With each advance and retreat, the ice typically deposited in and along the valley layers of till that may contain large slabs of Raritan clay, outwash sand and glacial lake silt and clay derived in part from the Raritan. In the process, the ice glacially sheared and loaded the older sediments below, densifying them, before depositing less dense soil above. Surficial fills placed by man to level and develop the site and surrounding area overlie the natural soil formations.

SUBSURFACE INVESTIGATION

MRCE proposed a phased investigation consisting of six borings made in two phases (preliminary and final phase) to expedite the start of foundation design and satisfy NYC Building Code requirements for subsurface exploration. The preliminary investigation was intended to consist of five borings made in accessible areas (parking lot and sidewalk) and provide sufficient subsurface data to initiate foundation design. Subsurface data available from prior site investigations allowed reduction in the number of preliminary borings from five to three and addition of three Cone Penetration Test (CPT) soundings to assist in the preliminary investigation. CPT soundings provide a continuous record of soil strength and stiffness with depth and were added to facilitate a better evaluation of foundation performance during building design. We refer to our October 2016 Preliminary Subsurface Investigation Report for details of the previous investigations and findings.

The final subsurface investigation was performed following demolition of existing buildings in November 2016 and included two additional borings. A test pit was also planned as part of the final investigation to investigate the depth and character of foundations supporting the adjacent building along the east side of the site. However, the test pit was deleted from the final investigation following a records search in the Department of Buildings (Queens) which produced foundation design drawings for the adjacent building (See Appendix B).

MRCE Final Phase Investigation

Two additional borings (Borings MR-4P and MR-5U) were made in the southeast quarter of the site where former structures previously prevented access for drilling. The borings were drilled by Craig Test Boring, Inc. of Mays Landing, New Jersey on December 15th, 2016 under the continuous inspection of our Engineer, Mr. Eric Poon. As-built locations of the borings were determined by our Engineer by measuring distances from property features and are shown on Drawing No. B-1.

Borings were advanced with a truck-mounted CME 75 drill rig using wash-rotary methods with casing and biodegradable drilling mud to stabilize the borehole. Soil samples in MR-4P were collected continuously from ground surface to a depth to 12 feet and at five foot intervals thereafter. Soil samples in MR-5U were collected at five foot intervals from ground surface to end of boring. Soil samples were obtained by performing Standard Penetration Tests (SPT), where a standard, 2-inch O.D. split-spoon sampler is driven through four 6-inch intervals with a 140-pound hammer, free-falling 30 inches. The SPT resistance, also termed N-value and expressed in blows per foot (bpf), is an indication of the relative density of the

material sampled and is calculated by summing the blows from the second and third 6-inch intervals. In some instances, where the sampler was unable to penetrate the full 24 inches due to the presence of dense soils, large gravel, cobbles, boulders, or other obstructions, the sampler was driven until refusal (i.e. 50 to 100 blows were administered) and the actual penetration of the sampler was measured and recorded. Recovered soil samples were classified in the field in accordance with the Unified Soil Classification System (USCS) and placed in jars for preservation and transport to our laboratory.

One undisturbed sample was taken of the Stratum C clay encountered in Boring MR-5U by mechanically pushing a 3-inch diameter tube using a Shelby tube sampler. The length of push and recovery of the tube sample is recorded in the boring log for MR-5U in Appendix A. Upon recovery, the tube sample was sealed with hot wax and plastic end caps for sample preservation and transported to our laboratory. The recovered sample was classified in the field in accordance with the Unified Soil Classification System (USCS) and transported to our laboratory.

A deep well-point piezometer was installed in MR-4P at completion to monitor water levels. The piezometer consisted of two inch I.D. PVC standpipe installed to a depth of 75 feet. The bottom ten feet of the standpipe is slotted and surrounded by filter sand to allow free water movement into the piezometer without movement of soil particles. A falling head test was performed by filling the standpipe with water and measuring the drop in water level with time to ensure proper operation of the well. Logs of the completed borings are provided in Appendix A.

LABORATORY TESTING PROGRAM

All soil samples were delivered to our soil mechanics laboratory in Manhattan. Samples were reviewed and field descriptions were revised as necessary for conformance with MRCE's Geotechnical Reference Standards, described on Drawing No. GS-R. Individual sample descriptions are provided on the final, typed boring logs in Appendix A.

Index Testing: Natural water contents were determined on all fine-grained soil (silt and clay) samples. The results of the water content determinations are included on the boring logs in Appendix A. Water contents are expressed as a percentage of the sample dry weight.

SUBSURFACE CONDITIONS

We have updated soil strata descriptions from our October 2016 Preliminary Geotechnical Report to incorporate the results of the final borings. General descriptions of each of the strata, including material classification (Class) in accordance with the New York City Building Code (2014), are summarized below in order of their occurrence with depth. We refer to Geologic Sections A-A and B-B on Drawing Nos. GS-1 and GS-2 for a graphical representation of the variation in soil strata across the site.

Stratum F – Fill (NYC Class 7): The site is covered with fill comprised of natural soils reworked or transported by man. The fill ranges from loose to medium compact, brown fine to coarse sand, some to trace silt, trace to some gravel, trace brick to soft brown clayey silt, some to trace coarse to fine sand. The fill thickness is expected to vary across the site as it ranged between 8 and 13.5 feet in the MRCE borings. N-values range from 6 to refusal with an average of 13 bpf. The erratic sampling resistance indicates uncontrolled fill placement with the higher N-values typically the result of large gravel, cobbles, boulders or other obstructions within the fill. Remnant foundations and local concentrations of construction debris are also expected within the fill from prior site construction and the completed demolition of site structures.

Stratum S – Sand (NYC Class 3b): Sand underlies the fill in all borings and is interlayered with the underlying Stratum C clay (described below) in Borings MR-1 and MR-3U. Stratum S consists of loose to medium compact, brown fine to medium to fine to coarse sand, trace to some silt, and trace gravel. The

thickness of the sand ranges from 35 feet in MR-2U to between 2.5 and 15 feet where the sand is interlayered with Stratum C clay in MR-1 and MR-3U. N-values range from 4 to 36 bpf and average 17 bpf.

Stratum C – Silty Clay (NYC Class 4b): Stiff to hard clay exists below and is typically interlayered with the sand in all borings except Boring MR-4P made in the southeast corner of the site. Stratum C consists of stiff to hard brown, red-brown and gray silty clay, sometimes interlayered or varved with clayey silt, silt or fine to medium sand seams. In MR-2U, Stratum C underlies the Stratum S sand and is ten feet thick. In borings MR-1 and MR-3U, Stratum C is interlayered with Stratum S and ranges in thickness from five to 17.5 feet. The top of Stratum C varies from 23.5 feet (EI. +15) in MR-3U to 48.5 feet (EI. -4) in MR-2U. N-values range from 14 to 53 bpf with an average of 26 bpf. Natural water contents range from 25 to 40 percent, with an average value of 31 percent.

Slickensides are evident in many Stratum C samples. Slickensides in a soil are secondary structures that result from prior friction along a fault plane and are found in cohesive material that was disturbed or locally reworked after deposition. These slickensides then become irregular planes of weakness which affect the clay strength. Compression tests on undisturbed samples of Stratum C indicate a range in clay shear strength between 1.9 and 2.1 kips per square foot (ksf).

The consolidation tests indicate that the clay stratum is moderately to heavily over-consolidated with an over-consolidation ratio (OCR) greater than 4. The OCR is the ratio of the pre-consolidation pressure as determined from consolidation testing to the estimated existing overburden pressure at the sample depth.

Stratum T – Till (NYC Class 3a): Glacial till underlies the clay deposits. Stratum T consists of medium compact to very compact, brown to gray fine to coarse sand, trace to some silt with layers and pockets of clayey sand and trace gravel, lignite. The top of the till ranges in depth from 43.5 feet (EI. +1) in MR-4P to 58.5 feet (EI. -14) in MR-2U. N-values vary between 24 and 107 bpf with an average of 58 bpf. Three fine-grained till samples encountered in Borings MR-1 and MR-3 show an average water content of 21 percent.

Groundwater: Groundwater levels were typically measured during borehole advance and are shown on the boring logs and geologic sections. Borehole levels may not represent stabilized water levels and therefore may not be indicative of the groundwater regime.

Groundwater levels measured in January 2017 in the deep piezometer MR-4 range from a depth of 47.9 to 49.7 feet below the standpipe rim, or between El. -2.0 and El. -3.8. In comparison, ground water levels measured in the shallower environmental monitoring wells installed by Roux Associates, Inc. in June 2016 range from a depth of 35 to 36.5 feet below ground surface, or between about El. +8.3 and El. +9.7.

The deeper water levels measured in January 2017 are attributed to on-going dewatering for a deep excavation in progress across the street from the AAFE project site at the northeast corner of the intersection of 39th Avenue and College Point Boulevard. We understand that the adjacent excavation requires groundwater lowering of about twenty (20) feet, or to about EI. -10. It is likely, given the granular deposits and discontinuous nature of the clay strata at the AAFE site, that this work has affected the groundwater levels at the Project site. However, water perched at the top of the Stratum C clay is still anticipated even with on-going dewatering and may result in groundwater encountered at higher elevation in excavations at the Project site.

Groundwater levels are expected to vary seasonally throughout the year depending on precipitation levels and surface water infiltration. As such, the groundwater level at the time of construction may be different from levels observed during our field investigations.

FOUNDATION DESIGN AND CONSTRUCTION RECOMMENDATIONS

The results of the final subsurface investigation are generally consistent with the findings of our preliminary investigation. Foundation recommendations in our October 2016 Preliminary Report therefore remain applicable. Recommendations below are intended to enhance or supplement our prior recommendations:

 Soil Profile: The additional borings (MR-4P and MR-5U) further demonstrate the variability of the natural soils within the proposed depth of excavation. The Stratum C clay is interlayered with the Stratum S sand and locally missing in some areas. However, soils at mat subgrade are expected to consist of predominantly of the stiff to hard clays of Stratum C. These sensitive soils are susceptible to softening and disturbance by construction operations, particularly in the presence of water or freezing weather.

Proper performance of the mat foundation requires support on undisturbed soil subgrade. Final subgrade exposure must be made using a smooth edged excavating tool, such as a backhoe or bucket with the teeth shielded, and operating by reach of equipment and working on mats or at least two feet above subgrade. All water must be diverted away from and not allowed to pond in excavations. Mat construction should either proceed immediately after subgrade approval or subgrade promptly covered with a lean concrete mud to protect subgrade materials from subsequent deterioration from weather, surface water infiltration and construction traffic in the interim period until foundation construction

- 2. Groundwater: The deep piezometer MR-4P installed in the final investigation indicates that the adjacent construction at the site across 39th Avenue has lowered groundwater levels significantly at the site. However, the duration of this on-going work is unknown and such lowered site water levels should not be counted on during construction of the proposed AAFE project. In any event, even with on-going dewatering at the adjacent site, perched water at the top of the Stratum C clay is still anticipated and may result in groundwater encountered at higher elevation in excavations at the Project site. Dewatering considerations in our October 2016 Preliminary Report therefore remain applicable.
- 3. *Mat Foundation Settlements:* Incorporating the results of the final investigation in our settlement models confirms our prior recommendation that the design of the foundation mat should accommodate a differential settlement of one (1) inch between the center and corner of the mat.
- 4. Underpinning and Protection of Adjacent Structures: The adjacent building abutting the east property line has a single cellar level estimated at a depth of about 14 feet. From documentation found at the Department of Buildings (Queens), the adjacent building is supported on a narrow strip footing at a depth of approximately 15 feet (El. 30) below current site grades. In comparison, excavation for new building construction will require excavation to a depth of about 30 feet to general subgrade (El. 13.5) and locally deeper to 36 feet (El. 7.5) for elevator construction along the east property line. Underpinning of the adjacent foundations is therefore necessary. Underpinning will require obtaining permission from adjacent property owners which must be negotiated in advance of construction.
- 5. Permeation Grouting: The adjacent property along the east building line consists of a series of narrow buildings (13 to 14 feet wide) supported on shallow foundations bearing near the top of the Stratum S sands. The narrow width of the building places the footings supporting the common wall between the adjacent and neighboring building within the influence zone of the deep AAFE excavation. Permeation grouting of the Stratum S sand beneath the building is therefore recommended prior to underpinning to stabilize the sands, avoid ground loss and thereby mitigate movement of the adjacent buildings during underpinning and subsequent

excavation for foundation construction. Permeation grouting using sodium silicate grout is recommended due to the variable character of the Stratum S sands.

GEOTECHNICAL REVIEW OF FOUNDATION DESIGN & CONSTRUCTION

The borings disclose a complex subsurface profile with interlayered sands and clays expected at and below foundation subgrade. This variable profile may result in foundations bearing on soil of different character and thickness. Interaction between the geotechnical and structural engineer is therefore essential as foundation design progresses to optimize building foundations and provide adequate building performance under the range in service loading conditions. Geotechnical review and assistance in preparation of foundation plans and specifications for below grade work is also recommended so that foundation and construction recommendations provided herein are properly interpreted and implemented in the design.

Recommendations for foundation design and construction in this report are based on the information obtained from the borings and associated field and laboratory testing. However, conditions on the site may vary between discrete boring locations and observed at the time of our subsurface exploration. The nature and extent of variations between borings may not become evident until exposed in construction. Geotechnical observation of foundation construction and testing is recommended to provide an opportunity to observe soil conditions and behavior as exposed during construction, evaluate the applicability of the recommendations provided in this report to the soil conditions differ from those described herein. We recommend that all foundation construction be observed by a qualified geotechnical engineer in accordance with the requirements of the NYC Building Code.

CLOSURE

This report presents the results of our investigations and our recommendations for foundation design and construction for the proposed project. We will be pleased to answer questions regarding this report and further assist in design and construction of the project as you may request.

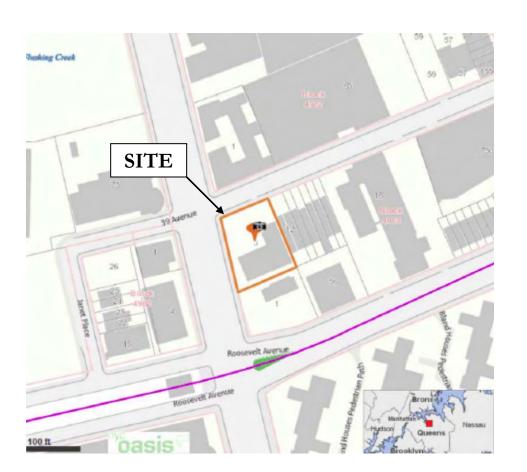
Very truly yours,

MUESER RUTLEDGE CONSULTING ENGINEERS

Walter E. Koeck By: Nalter E. Kaeck

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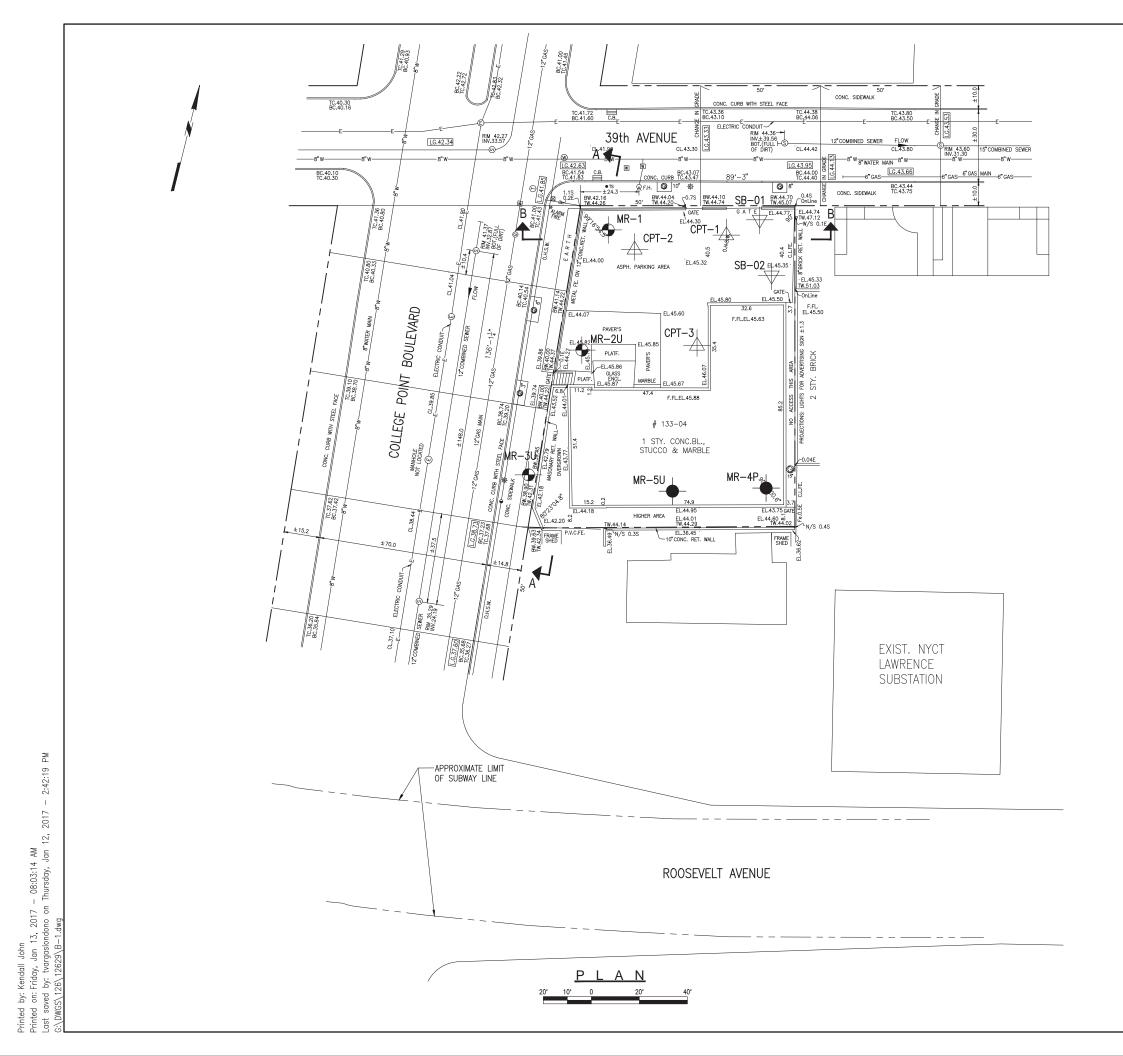
EXHIBITS



NOTE: Map from the Open Accessible Space Information System (OASIS) website, <u>www.oasisnyc.net</u>, retrieved on 6/30/2016

AAFE Mixed-Use Building, Queens,	New York
Mueser Rutledge Consulting Engineers 225 West 34 th Street • New York, NY 10122	06/30/16
Site Location Plan	MRCE 12629

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NOTES:

- 1. THE BASE PLAN FOR THE PROJECT SITE IS FROM THE ARCHITECTURAL SITE SURVEY, DRAWING REFERENCE NO. Q4973-002, PREPARED BY JOSEPH NICOLETTI ASSOCIATES, 499 JERICHO TURNPIKE, SUITE 201, MINEOLA, NEW YORK, 11501, DATED MARCH 1, 2016.
- 2. THE OUTLINES OF ADJACENT BUILDINGS WERE TAKEN FROM THE NEW YORK CITY DEPARTMENT OF CITY PLANNING ZONING MAP.
- THE LOCATION OF THE NYCT SUBWAY TUNNEL UNDER ROOSEVELT AVE WAS TAKEN FROM NYCT DRAWING ROUTE NO. 52 – SECTION NO.3, STA. 0 + 00 TO STA. 8 + 30, STRUCTURAL PLAN DWG NO. 28, DATED 4-02-1923.
- THE LOCATION OF THE NYCT SUBWAY SUBSTATION WAS TAKEN FROM NYCT DRAWING ROUTE NO. 52 – SECTION NO. 3, LAWRENCE SUBSTATION STRUCTURAL PLANS, FIRST FLOOR PLAN. DWG NO. 306, DATED 9–19–1951.
- 5. THE NYCT STRUCTURES WERE LOCATED BY SCANNING THE REFERENCED DRAWINGS AND SCALING THEM TO FIT ON THE BASE PLAN. ALL LOCATIONS ARE APPROXIMATE.
- BORINGS MR-1, MR-2U, MR-3U AND CPTS WERE MADE BY CRAIG DRILLING, INC., OF MAYS LANDING, NEW JERSEY, BETWEEN MAY 2, THROUGH MAY 10, 2016, UNDER THE CONTINUOUS INSPECTION OF MUESER RUTLEDGE CONSULTING ENGINEERS (MRCE).
- BORINGS MR-4P & MR-5U WERE MADE BY CRAIG DRILLING OF MAYS LANDING, NY, ON DECEMBER 15, 2016, UNDER THE CONTINUOUS INSPECTION OF MUESER RUTLEDGE CONSULTING ENGINEERS.
- BORINGS TWP-01/SB-01 AND TWP-02/SB-02 WERE MADE BY AQUIFER DRILLING AND TESTING, BETWEEN NOVEMBER 4 & 5, 2006, UNDER THE INSPECTION OF LOUIS BERGER AND ASSOCIATES, P.C.
- 9. ELEVATIONS AT THE BORING LOCATIONS WERE ESTIMATED IN REFERENCE TO NAVD88 BASED ON AVAILABLE SITE SURVEY INFORMATION.
- 10. BORING LOCATIONS WERE MEASURED IN THE FIELD OFF OF EXISTING STRUCTURAL FEATURES.
- 11. GEOLOGIC SECTION A-A IS SHOWN ON DRAWING GS-1 AND GEOLOGIC SECTION B-B IS SHOWN ON DWG. GS-2.

LEGEND:
MR-3U — PRELIMINARY PHASE BORING — "U" UNDISTURBED SAMPLE — MR-4P
- FINAL PHASE BORING - "P" PIEZOMETER
CPT-1 - CPT by craig test
SB-01 - EXISTING BORING MADE BY AQUIFER DRILLING AND TESTING
1 01-12-17 S.O.H.J. FINAL PHASE REV. DATE BY DESCRIPTION
AAFE MIXED USE BUILDING
ASIAN AMERICANS FOR EQUALITY
MUESER RUTLEDGE CONSULTING ENGINEERS 14 PENN PLAZA – 225 W. 34TH STREET, NY, NY 10122
SCALE MADE BY: E.C. DATE: 06-07-2016 FILE NUMBER GRAPHIC CH'KD BY: S.O.H.J. DATE: 06-07-2016 12629
BORING LOCATION PLAN B-1

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	EL. 38.5 —						
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GEOLOGIC SECTION A-A

GENERAL STRATA DESCRIPTIONS:

- F <u>FILL</u> LOOSE TO MEDIUM COMPACT, BROWN FINE TO COARSE SAND, SOME TO TRACE SILT, TRACE TO SOME GRAVEL.
- S SAND LOOSE TO MEDIUM COMPACT, BROWN FINE TO COARSE SAND, TRACE TO SOME SILT, TRACE GRAVEL.
- \bigcirc SILTY CLAY STIFF TO HARD BROWN, RED-BROWN AND GRAY SILTY CLAY, SOMETIMES INTERLAYERED OR VARVED WITH CLAYEY SILT, SILT OR FINE TO MEDIUM SAND SEAMS.
- T THE MEDIUM COMPACT TO VERY COMPACT, BROWN TO GRAY FINE TO COARSE SAND, TRACE TO SOME SILT WITH LAYERS AND POCKETS OF CLAYEY SAND, TRACE GRAVEL, LIGNITE.

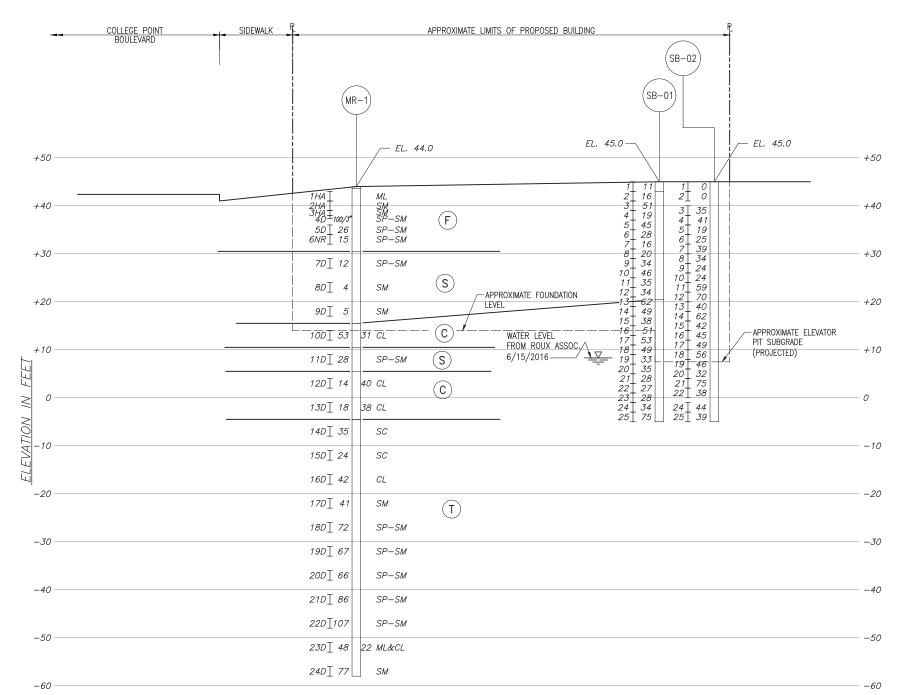
GEOLOGIC SECTION NOTES:

- FOR GENERAL NOTES AND LOCATIONS OF BORINGS AND GEOLOGIC SECTIONS, SEE BORING LOCATION PLAN, DRAWING NO. B-1.
- 2. FOR BORING LEGEND AND SOIL CLASSIFICATION SYSTEM, SEE GEOTECHNICAL REFERENCE STANDARDS, DRAWING NO. GS-R.
- BORINGS ILLUSTRATED ON GEOLOGIC SECTIONS ARE IN SOME CASES PROJECTED TO THE SECTION OR OFFSET FOR CLARITY. STRATIFICATIONS SHOWN ON GEOLOGIC SECTIONS ARE NECESSARY INTERPOLATIONS BETWEEN AND BEYOND BORINGS AND MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.
- 4. WATER LEVELS SHOWN ARE PRELIMINARY WATER LEVELS PROVIDED BY ROUX ASSOCIATES, INC. FROM THEIR ENVIRONMENTAL INVESTIGATION, JUNE, 2016.



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1	01-12-17	S.O.H.J.	FINAL PHASE	
REV.	DATE	BY	DESCRIPTION	
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QUI	EENS			NEW YORK
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G	scale RAPHIC		Y: E.C. DATE: 06-07-2016 BY: S.O.H.J. DATE: 06-07-2016	FILE NUMBER
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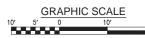


GEOLOGIC SECTION B-B

GENERAL STRATA DESCRIPTIONS:

- $\overbrace{\mathsf{F}} \underbrace{\mathsf{FILL}}_{\mathsf{SOME}} \mathsf{LOOSE} \text{ TO MEDIUM COMPACT, BROWN FINE TO COARSE SAND,} \\ \underset{\mathsf{SOME}}{\mathsf{FILL}} \mathsf{LOOSE} \text{ TO TRACE SILT, TRACE TO SOME GRAVEL.}$
- S $\underline{\text{SAND}}$ LOOSE TO MEDIUM COMPACT, BROWN FINE TO COARSE SAND, TRACE TO SOME SILT, TRACE GRAVEL.
- C <u>SILTY CLAY</u> STIFF TO HARD BROWN, RED-BROWN AND GRAY SILTY CLAY, SOMETIMES INTERLAYERED OR VARVED WITH CLAYEY SILT, SILT OR FINE TO MEDIUM SAND SEAMS.
- $(T) \qquad \underbrace{IILL}_{COARSE} \mbox{ medium compact to very compact, brown to gray fine to coarse sand, trace to some silt with layers and pockets of clayey sand, trace gravel, lignite.$

NOTES: FOR NOTES, SEE DRAWING NO. GS-1.



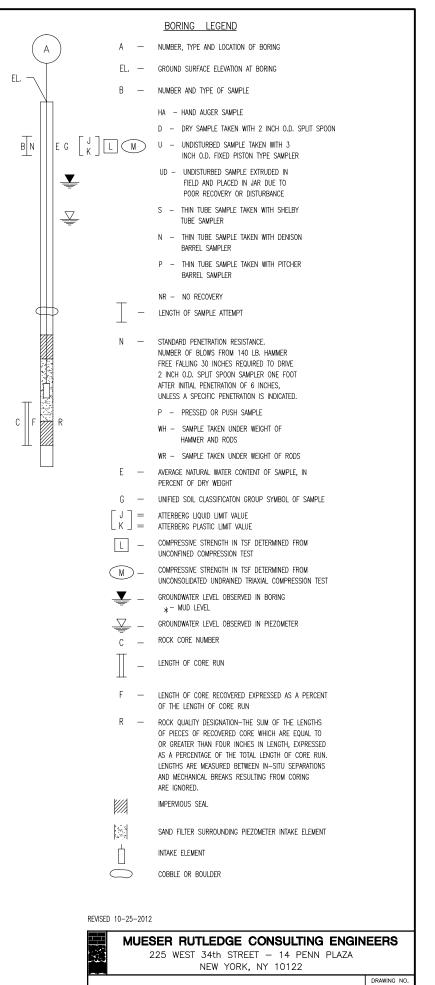
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ELEVATION

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	MAJOR DIVISION	5	GROUP SYMBOLS	TYPICAL N	AMES	(EXCLUDING F	NTIFICATION P PARTICLES LAR	ROCEDURES GER THAN 3 IN. STIMATED WEIGHTS)							LABORAT	TORY CLA	ASSIFICATI	ON CRITEF	RIA					
1		2	3	4			5			HYDRO	METER ANALY	/SIS ———										SIEVE	ANALYSIS	IS
	RACTION SIZE.	GRAVELS R NO FINES)	GW	WELL GRADED GRAVELS, GR LITTLE OR NO F			n grain sizes an Ll intermediate		100			U.S.	STANDARD	SIEVES	#200	#100 #70	#50 #40	#30 #1	6 #10 #8	#4	3/8"	3/4" 1"	11/2" 21/	
SIEVE SIZE	GRAVELS I HALF OF COARSE FRACTION R THAN NO. 4 SIEVE SIZE. Y BE USED AS	CLEAN (GP	POORLY GRADED GRAVELS, LITTLE OR NO F			ONE SIZE OR A INTERMEDIATE SIZ		80 1H01				PO SAI	PRESENTATIN ORLY GRADE ND SAMPLE	E 11									
0. 200		SRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GM	SILTY GRAVELS, GRAVEL-	SAND-SILT-MIXTURES.		es or fines with Ton procedures	H LOW PLASTICITY S SEE ML BELOW)	B NER		EQUIREMENTS $C_u = \frac{D_{60}}{D_{10}} GRE$	FOR G	W											
E TO THE NAKED EYE	MORE T IS LAF /4 -IN. SIZE . 4 SIEVE SIZ	CRAVELS WITH (APPRECIAB AMOUNT OF F	GC	CLAYEY GRAVELS, GRAVEL-	SAND-CLAY MIXTURES.	(FOR IDENTIFICAT	PLASTIC FINES ION PROCEDURES	S SEE CL BELOW)	DER CENT		$C_{c} = \frac{(D_{30})^2}{D_{10} \times D}$ EQUIREMENTS	FOR SI	W											
MATERIAL IS	ACTION SIZE. ATION, THE 1/ VIT TO THE NO.	SANDS NO FINES)	SW	WELL-GRADED SANDS, LITTLE OR NO			n grain sizes an Ll intermediate	ND SUBSTANTIAL PARTICLE SIZES.	20		$C_{u} = \frac{D_{60}}{D_{10}} CRE$ $C_{c} = \frac{(D_{30})^{2}}{D_{10} \times D_{6}}$ $C_{c} = \frac{(D_{30})^{2}}{D_{10} \times D_{6}}$	ater than -between 1	6 1 AND 3						REPRESENT	i i i Ative Wel	L GRADED			
THAN HALF OF	SANDS N HALF OF COARSE FRACTION ER THAN NO. 4 SIEVE SIZE (FOR VISUAL CLASSIFICATION, TI C DR VISUAL CLASSIFICATION, TI FOULVIALENT TO TH	CLEAN (LITTLE OR	SP	POORLY GRADED SANDS LITTLE OR NO			one size or a Intermediate siz	RANGE OF SIZES ZES MISSING.	0.00	01 .0		60 111111111 05 .01	.02		5 .1 GR	.2 RAIN SIZE	IN MILLI s	METERS	2.0	PLES - S	G	RAV		
MORE TH	SAN HAN HALF OF ALLER THAN N (FOR VISU	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-	SILT-MIXTURES.		es or fines with 10n procedures	H LOW PLASTICITY S SEE ML BELOW)		SIFICATION	1	DEF	PENDING	ON PERCEN	AGE OF FIN	IES (FRACT	SIZE PLOT			ARSE	FINE	COBBL	ARS LE 3-12 DER > 12	2"
ABOUT THE 3	MORE THAN H IS SMALLER (FC	SANDS W (APPRI AMOUNT	SC	CLAYEY SANDS, SAND	-CLAY MIXTURES.	(FOR IDENTIFICAT	PLASTIC FINES ION PROCEDURES	S SEE CL BELOW)					THAN 5% THAN 12 D 12%		G	W, GP, SW M, GC, SM ORDERLINE	, SC	QUIRING USE	OF DUAL S	YMBOLS, I	I.E.: SP-SM	GP-GM.		
SIEVE SIZE SIEVE SIZE IS							CATION PROCED	DURES ON . 40 SIEVE SIZE		60														LINE
NO. 200 0. 200						DRY STRENGTH (CRUSHING CHARACTERISTICS	DILATANCY (REACTION TO) SHAKING)	TOUGHNESS (CONSISTENCY NEAR PL)		50								СН						
THE N	CLAYS	20	ML	INORGANIC SILTS, SANDY OR CLAYEY SILTS WITH S		NONE TO SLIGHT	QUICK TO SLOW	V NONE		Ħ														
IS <u>SMALLER</u>		LESS THAN	CL	INORGANIC CLAYS, OF LOW GRAVELLY CLAYS, S SILTY CLAYS, LE	SANDY CLAYS,	MEDIUM TO HIGH	NONE TO VERY SLOW	MEDIUM	ITY INDEX	40														
MATERIAL IS SMA]	OL	ORGANIC SILTS AND ORG LOW PLASTIC		SLIGHT TO MEDIUM	SLOW	SLIGHT	PLASTICITY	30														
HALF OF M/	<u>LIAYS</u>	N 20	МН	INORGANIC SILTS, MICACEO FINE SANDY OR SILTY S		SLIGHT TO MEDIUM	SLOW TO NONE	SLIGHT TO MEDIUM		Ħ			CL								ИН & OH			
THAN	silts and clays	GREATER THAN	СН	INORGANIC CLAYS OF HIGH	PLASTICITY, FAT CLAYS.	HIGH TO VERY HIGH	NONE	HIGH		20														
MORE		GREA	ОН	ORGANIC CLAYS OF MEDIL ORGANIC SI		MEDIUM TO HIGH	NONE TO VERY SLOW	, SLIGHT TO MEDIUM		10														
HI	GHLY ORGANIC SOILS		Pt	PEAT AND OTHER HIGHL	Y ORGANIC SOILS.		ed by color, oi Uently by Fibro	DOR, SPONGY FEEL DUS TEXTURE.					70		& OL									
				ESSING CHARACTERISTICS OF WITH CLAY BINDER.	TWO GROUPS ARE DESIGNA	ATED BY COMBINATION	NS OF GROUP SY	MBOLS,		10	20		30 P	40 LASTICITY	CHART FC		LIMIT SIFICATION		70 GRAINED	80 SOILS	9	, 	100	
					TE	ERMINOLOGY USE	D IN MRCE SC	DIL DESCRIPTIONS																
	DEGREE OF COMPACTION FOR NON-PLASTIC SOIL						CONSISTENCY OF	CLAY AND CLAYEY SI	<u>1</u> +					-			CONSTITUEN							
1	EGREE OF COMPACTI	ON	BLO	WS [*] PER FOOT	CONSISTENCY		UNCONFINED C STRENGT	H (TSF)		Cł	DENTIFICATION HARACTERISTIC:	S				TAGES AS PLE CLASS	USED IN SU	UIL						
	LOOSE			0 TO 10	SUEL	1	LECC TH	AN O.F.	L EVC	UN DEM	I DED WITH		11						1					

L	DEGREE OF COMPACIION	FOR NON-PLASTIC SOIL		CONSISTENCY OF CLAY AND CLAYEY SI		DESCRIPTION OF CONSTITUENT
	DEGREE OF COMPACTION	BLOWS* PER FOOT	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TSF)	IDENTIFICATION CHARACTERISTICS	PERCENTAGES AS USED IN SOIL SAMPLE CLASSIFICATIONS
	LOOSE	0 TO 10	SOFT	LESS THAN 0.5	EASILY REMOLDED WITH SLIGHT FINGER PRESSURE	1% to 12% - "TRACE"
	MEDIUM COMPACT	11 TO 29	MEDIUM	0.5 TO 1.0	REQUIRES SUBSTANTIAL PRESSURE FOR REMOLDING	13% TO 30% - "SOME" 31% TO 49% - ADJECTIVE FORM OF
	COMPACT	30 TO 50	STIFF	1.0 TO 4.0	DIFFICULT TO REMOLD WITH FINGERS	SOIL GROUP (EG. SANDY)
	VERY COMPACT	GREATER THAN 50	HARD	GREATER THAN 4.0	CANNOT BE REMOLDED WITH FINGERS	EQUAL AMOUNT - "AND" (EG. SAND AND GRAVEL)
	* STANDARD PENETRATION RESISTANCE U HAMMER FREE FALLING 30 INCHES TO 0.D. SPLIT-SPOON SAMPLER.		+ NONPLASTIC SILTS ARE D AS PRESENTED FOR NON	ESCRIBED USING DEGREE OF COMPACTION PLASTIC SOIL.		



GEOTECHNICAL REFERENCE STANDARDS GS-R

APPENDIX A

MRCE Final Boring Drawings

MUESER RUTLEDGE CONSULTING ENGINEERS BORING LOG

			B	ORING LOG		BOR	ING NO.	MR-4P
							ET 1 OF	
PROJEC			A	AFE MIXED USE BUILDING	_		FILE NO.	
LOCATI	ON:			FLUSHING, QUEENS	S	JRFAC	E ELEV.	
						RES	. ENGR.	ERIC POON
DAILY		SAMF	PLE				CASING	
PROGRESS	NO.	DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	BLOWS	REMARKS
07:00	1D	0.0	7-6	Brown silty fine to medium sand, trace coarse			DRILLED	
12-15-16		2.0	7-9	sand, gravel (Fill) (SM)			AHEAD	
Thursday	2D	2.0	8-7	Do 1D, trace brick (Fill) (SM)			4"	
Overcast		4.0	8-8		-			
23°F	3D	4.0	6-4	Brown silty fine to medium sand, trace gravel	F	5		
		6.0	2-5	(Fill) (SM)				
	4D	6.0	6-6	Brown fine to coarse sand, some silt, trace				
-		8.0	5-9	gravel (Fill) (SM)		8	•	
-	5D	8.0	15-18	Brown fine to coarse sand, some gravel, silt				REC=6"
-		10.0	15-10	(Fill) (SM)		10		-
	6D	10.0	16-16	Brown fine to coarse sand, some gravel, trace				1
F		12.0	12-17	silt (SP-SM)				1
_		-						-
ŀ								-
-						15		-
-	7D	15.0	11-9	Brown fine to coarse sand, some gravel, trace				1
-		17.0	8-8	silt (SP-SM)				-
-								-
-								-
-						20		-
-	8D	20.0	10-13	Brown fine to medium sand, trace silt, coarse				4
-	00	22.0	10-12	sand, gravel (SP-SM)				-
-		22.0	10-12					-
-								-
-						25		-
	9D	25.0	12-17	Do 8D (SP-SM)	-	23		-
-	90	27.0	12-17	D0 0D (3F-3N)	S			
-		27.0	19-10					-
-						28.5		-
-						30		-
-	10D	20.0	10 10	Brown find to modium cond. come ailt (CM)		30		
-	100	30.0	18-19	Brown fine to medium sand, some silt (SM)				-
-		32.0	19-15					-
-						<u> </u>		-
-						25		-
-	445	05.0	45.40	Descent fine to see a later little little		35		-
-	11D	35.0	15-18	Brown fine to coarse sand, trace silt, gravel				
-		37.0	19-15	(SP-SM)				-
F								
-						46		
Ļ	1.55					40		4
_	12D	40.0	17-20	Gray fine sand, some silt, trace coarse sand (SM)				-
_		42.0	22-22					-
F						43.5		
						45		
	13D	45.0	16-20	Gray fine to coarse sand, trace silt, gravel				
		47.0	23-17	(SP-SM)				
					т			
						50		
	14D	50.0	20-18	Brown fine to coarse sand, some silt, gravel				
		52.0	20-17	(SP-SM)	1			

BORING NO. MR-4P

MUESER RUTLEDGE CONSULTING ENGINEERS BORING LOG

			B	ORING LOG			ING NO.	
ROJE	۰т.		۸				ET 2 OF	
	-		A				ILE NO.	
OCATI				FLUSHING, QUEENS	_ 5		E ELEV.	
			_			RES	. ENGR.	
DAILY ROGRESS	NO.	SAMF DEPTH	LE BLOWS/6"	SAMPLE DESCRIPTION	στρατα	рертц	CASING BLOWS	REMARKS
Cont'd	NO.	DEFIN	BLOWS/0		SINAIA	DEFIN	BLOWS	NEWARRS
2-15-16								
hursday								
vercast								
23°F	150					55		
-	15D	55.0	14-19	Gray silty fine to coarse sand, trace gravel (SM)				
-		57.0	56-31					-
-								-
-						60		Possible boulder at 60
	16NR		100/0"	No recovery				Rig chatter between 6
-		62.0						to 65'.
-					т			
-					1	65		-
	17D	65.0	16-22	Brown fine to medium sand, some silt, trace		05		
-		67.0	20-13	coarse sand, gravel (SM)				
-								
-						70		
•	18D	70.0	25-21	Crowfing to approx and some ailt trace group		70		
-	160	70.0	25-21	Gray fine to coarse sand, some silt, trace gravel (SM)				
·		72.0	22 20					
								-
						75		
	19D	75.0	22-24	Red to brown fine to medium sand, some silt,		77		
10:30		77.0	22-22	trace coarse sand (SM)		77		End of Boring at 77'.
-								
-						80		
-								
-								
-						85		
•						00		
-								-
-								
•						90		
-								
-								
						95		
-								
-								-
-								
-						100		-
•						-		
-								

	edge Consult	i <mark>ng Engi</mark> ^{at}	neers		PIEZON	METER RECORD
PROJECT:AA	F: 917 339-9400 FE MIKED (FLUSHING , QU SEE) EENS	1LD 2NG	Piezon	S FIL INSTALLATION	G NO. MR-4, P HEET <u>3</u> OF 4 E NO. <u>12.629</u> DATE <u>12-15-2016</u> ENGR. <u>ERIC POON</u>
STRATA GROUND SURFACE ELEV. 144.5	PIEZOMETER INSTALLATION DETAILS Stick-up ELU 165		- -	depth de diameter, in = <u>2</u> <u>STA</u> eleval	<u>NDPIPE/RISER</u> tion of rim, ft =	$\frac{75}{65} = L$ $\frac{70}{0.11} = 2R$
(5)	D	-	READING TIME DATE CLOC 12-15-214 14:00 1-9-2017 07:3	DEPTH - KINI TO WATER 8-3 47.9	ELEVATION OF WATER 37,6	O.17 = 2r REMARKS UPW COMPLETEDN SCHEDVIED READING
T		<u>43.5</u> (5				
		75				

SAND DAVD GRAVEL



GROUND SURFACE ELEV. 44.5 (1)

PIEZOMETER NO. MR-4P

MUESER RUTLEDGE CONSULTING ENGINEERS

									BORING I	NO.	MR-4P	
PROJEC							3		SHEET FILE NO.	4	OF 12629	4
					-	UEENS ATION PLA	N		SURFACE DATUM	E ELEV.	44.5 NAVD 88)±
DORING	LUCATIO	۱ <u> </u>	SEE	BORING			IN		DATOW		NAVD 00	
BORING	EQUIPMEI	NT AND M	ETHO	DS OF S	TABILI	ZING BORE	HOLE					
			E OF FE									
TYPE OF E	BORING RIG	DUR	ING CO	RING		CASING	USED		Х	YES	NO	
TRUCK	CME-7	75 MEC	HANICA	AL.		DIA., IN.	4		DEPTH, FT	. FROM	0 TO	8
SKID		HYD	RAULIC	;	Х	DIA., IN.			DEPTH, FT	. FROM	то	
BARGE		OTH	ER			DIA., IN.			DEPTH, FT	. FROM	ТО	
OTHER									-			
TYPE AN	D SIZE OF	:				DRILLIN	G MUD USEI	D	Х	YES	NO	
D-SAMPLE	R <u>2"</u> O.	D. SPLIT SI	POON			DIAMET	ER OF ROTA	ARY BIT	, IN.		3-7/8	
U-SAMPLE	R					TYPE O	F DRILLING I	MUD			BIO-BORE	
S-SAMPLE	R									1		
CORE BAF	RREL					AUGER	USED			YES	X NO	
CORE BIT						TYPE AN	ND DIAMETE	R, IN.				
DRILL ROE	DS NWJ											
							B HAMMER, I		300	AVERAGE	· · · · · · · · · · · · · · · · · · ·	24
							ER HAMMER		140	AVERAGE	FALL, IN.	30
						*USED A	UTOMATIC	HAMME	R.			
WATERL	<u>EVEL OBS</u>					0000000000						
DATE	TIME	DEPTH HOLE		DEPTH CASIN		DEPTH TO WATER			CONDITIO		SERVATION	
DATE			-	OAOIN	.0	WATER		ç			CORD SHEET.	
	1	1					1					
PIEZOME	ETER INST	ALLED	X	YES		NO Sł	KETCH SHO	OWN C	N	SE	E SHEET NO. 3	3
STANDPIP	E:	TYPE		PVC	;	ID, IN.	1-3/4	LENG	GTH, FT.	65	TOP ELEV.	45.9
INTAKE EL	EMENT:	TYPE		SLOTTED	PVC	OD, IN.	2	LENC	GTH, FT.	10	TIP ELEV.	-29.1
FILTER:		MATERIAL		SANI	C	OD, IN.	4	LENC	GTH, FT.	12	BOT. ELEV.	-32.5
								_				
PAY QUA	NTITIES											
3.5" DIA. D	RY SAMPLE	BORING	L	IN. FT.		77	NO. OF 3	" SHELI	BY TUBE SA	MPLES		
3.5" DIA. U	-SAMPLE B	ORING	L	IN. FT.			NO. OF 3	UNDIS	STURBED SA	AMPLES		
CORE DRI	LLING IN RO	ОСК	L	IN. FT.			OTHER:					
BORING	CONTRAC	TOR				CF	RAIG GEOT	FECHN	ICAL DRIL	LING		
DRILLER			JOHN	MILLING	STON		HELPER	RS		JIMM	Y MARTINEZ	
REMARK	S					PIEZC	METER IN	STALL	ED.			
RESIDEN	IT ENGINE	ER				ERIC POOI	N			DATE	12-15	-16
CLASSIF	ICATION C	HECK:		CHEF	RYL J.	MOSS	TYPING	CHEC	: _	SA	RAH JOHNSON	1
MRCE Form B	S-1									BOI	RING NO.	MR-4P

MUESER RUTLEDGE CONSULTING ENGINEERS BORING LOG

							ET 1 OF			
ROJE	-		A	AFE MIXED USE BUILDING			FILE NO.	12629		
CATI	ON:			FLUSHING, QUEENS	S		E ELEV.			
						RES	6. ENGR.	ERIC POON		
DAILY		SAMF	PLE				CASING			
OGRESS	NO.	DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	BLOWS	REMARKS		
12:40	1D	0.0	11-6	Brown fine to coarse sand, trace silt, gravel			DRILLED	REC=1"		
2-15-16		2.0	3-4	(Fill) (SM)			AHEAD			
nursday							4"	-		
Sunny						3.5				
23°F						5				
	2D	5.0	WR/12"	Brown clayey silt, some fine to medium sand				WC=21		
		7.0	1-2	(ML)	F					
						10	•			
	3D	10.0	6-2	Do 2D, trace coarse sand (ML)				WC=22		
		12.0	2-2					-		
						40.5				
						13.5				
						15				
	4D	15.0	6-5	Brown clayey fine to coarse sand, trace gravel						
		17.0	8-13	(SC)						
					_					
					S			_		
						20				
	5D	20.0	6-10	Brown fine to medium sand, some silt, trace						
		22.0	9-7	coarse sand, gravel (SM)				-		
						23.5				
						25		WC=27, pp=2.0		
	6D	25.0	4-6	Stiff red brown silty clay, trace fine to coarse						
		27.0	9-8	sand (CL)						
	7U	28.0		Stiff red brown silty clay (CL)				WC=33, pp=3.0,		
	0.0	30.0	REC=19"			30		slickensided.		
	8D	30.0	7-8	Stiff red brown silty clay, trace fine to coarse				WC=28, pp=2.0,		
		32.0	11-12	sand (CL)				slickensided.		
					С					
						25				
	9D	35.0	5-9	Stiff red brown silty clay (CH)		35		WC_{-25} pp_2 5		
	รบ	35.0	5-9 14-14					WC=25, pp=2.5, slickensided.		
	$\left - \right $	57.0	14-14							
	$\left - \right $									
						40				
·	10D	40.0	9-10	Do 9D (CH)				WC=29, pp=3.0,		
14:15	100	42.0	19-18			42		slickensided.		
								End of Boring at 42'.		
						45		WC=Water Content		
								in percent of dry		
								weight.		
								pp=Pocket		
						50		Penetrometer		
								Unconfined Compres-		
								sive Strength in tsf.		
	I		I	1		1	NG NO.			

MUESER RUTLEDGE CONSULTING ENGINEERS

						BORING	NO.	MR-	-5U
						SHEET	2	OF	2
PROJEC	т	A	AFE MIXED U	SE BUILDING		FILE NO.		12629	
LOCATIC	DN		FLUSHING,	QUEENS		SURFAC	E ELEV.	+4	44 (±)
BORING	LOCATION	SE	E BORING LC	CATION PLAN	l	DATUM		NAVD 8	38
BORING	EQUIPMEN			ILIZING BOREH	<u>DLE</u>				
		TYPE OF					1		
	BORING RIG			CASING L	-		YES	NO	
TRUCK	CME-7			DIA., IN.	4	DEPTH, FT			TO <u>10</u>
SKID		HYDRAUL				_DEPTH, FT			TO
BARGE		OTHER		DIA., IN.		_DEPTH, FT	. FROM		то
OTHER									
	D SIZE OF				MUD USED	V	YES	NO	
D-SAMPLE		D. Split spoor	J		R OF ROTARY BI		TES	3-3/4	
U-SAMPLE	-	WALL	N			I, IIN.		BIO-BOR	
S-SAMPLE		WALL							.∟
CORE BAF	-			AUGER U	SED		YES	X NO	
CORE BIT					DIAMETER, IN.				
DRILL ROE					<i></i>				
				*CASING	HAMMER, LBS.	300	AVERAGE	E FALL, IN.	24
					R HAMMER, LBS.	140	-	E FALL, IN.	30
					TOMATIC HAMM	ER.	=	, =	
WATER L	EVEL OBS	ERVATIONS I	N BOREHOLE						
		DEPTH OF	DEPTH OF	DEPTH TO					
DATE	TIME	HOLE	CASING	WATER	CONDITIONS OF OBSERVATION				
						NO WATER	OBSERVA	TIONS MADE.	
PIEZOME	TER INST		YES X	NO SKI	ETCH SHOWN (N			
STANDPIP	PE:	TYPE		ID, IN.	I FN	GTH, FT.		TOP ELEV.	
INTAKE ELEMENT: TYPE				OD, IN.		GTH, FT.		TIP ELEV.	
FILTER:		MATERIAL		OD, IN.		GTH, FT.		BOT. ELEV.	
						- ,			
PAY QUA	NTITIES								
3.5" DIA. D	RY SAMPLE	BORING	LIN. FT.	42	NO. OF 3" SHEL	.BY TUBE SA	MPLES		1
3.5" DIA. U	-SAMPLE BO	ORING	LIN. FT.		NO. OF 3" UNDI	STURBED S	AMPLES		
CORE DRI	LLING IN RC	СК	LIN. FT.		OTHER:				
BORING	CONTRAC	TOR		CR	AIG GEOTECHN	NICAL DRIL	LING		
DRILLER		JOH	IN MILLINGTO	N	HELPERS		JIMM	Y MARTINE	Z
REMARK	S		BOREHOL	E BACKFILLED	WITH CUTTING	S UPON C	OMPLETI	ON.	
RESIDEN	IT ENGINE	ER		ERIC POON			DATE		-15-16
CLASSIF	ICATION C	HECK:	CHERYL	J. MOSS	TYPING CHEC	CK:		RAH JOHNS	
MRCE Form B	S-1						BO	RING NO.	MR-5U

APPENDIX B

Adjacent Building Information

GENERAL NUTES

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1

- CONTRACT VALL FAMILIARITY NIMSELF WITH "AIA DOCUMENT ALOT GUNTPAL TOWN TIMES WHICH IN PART OF SPECIFICATIONS.
- CONTRA 108 FARL VISIT THE SITE AND BE FAMILIAR OF EXISTING CONDITIONS.
- CONSTRUCTION SMALL C TPLY WITH ALL FEDERAL, STATE, CITY AND CUSTA, C DIMARCES, RULES AND REGULATIONS PERTAINING TO LIBOR, ECUIPTERY AND EXTERIALS
- WRITTEN DIFUNCTIONS SHAT'S T. PRECEDENCE OVER SCALED DIRCUSIONS AND DETAILED STANINGS OVER SMALLER SCALE DRAWINGS.
- CONTRACTON SHALL VERIFY AND BL RESPONSIBLE FOR ALL DIMENSIONS AND CONCITIONS O THE JOB AND THE ARCHITECTS OFFICE MUST BE NOTIFIELD OF ANY WARLATIONS OF THE DIMENSION AND CONDITION SHOWN ON THESE DRAWING.
- CONTRACTOR SHALL FOR THE REQUIRED LIABILITY INSURANCE, WORKHEVID COMPENTION INSURANCE AND DISABILITY INSURANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMIT FROM NULDING DEPARTMENT AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHOPITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INCESSARY PLATECTION FOR ALL WORT 75 CONFORM TO XYC BUILDING CODE INCLUDING "IDEVALK SHED, FENCE, BARRIER, NARNING SIGN, ETC., WHERE FEG. RED.
- THE ARCHITECT OR ENGINEER OF DESIGN WAS NOT BEEN RETAINED FOR ANY FIELD SUPERVISION OR INSPECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADROUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAVAGE, BRARKAGE, COLLAPSE, DISTORTIONS, MISARLIGNMENT, ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD PRACTICE.
- AL. INTERIOR FINISHES SHALL HAVE FLAXE SPRTAD RATTING OF CLASS "B", EXIT AND PASSAGE LEAD TO THE EXIT SHALL HAVE FLAME SPREAD RATING OF CLASS -A.
- 12. SO NORK SHALL BE COMMENCED WITHOUT PERMIT.
- CLATRACTOR RHALL DISCONNECT, CAP AND REMOUTE ANY EXISTING MATER, SANITANY OR UTILITY LINES IN AREA OF MEM FOUNDATION AND SYALL USE LAND EXCAVATION IN AREAS OF SUSPECTED UNDERGROUND UTILITIES AND SERVICES. 13. DATION
- AN ACCURATE AND COMPLETE LOT SURVEY MADE BY A LICENSED SURVEYOR SHALL BE SUMMITTED AFTER COMPLETION OF WORK SHEWING THE LOT, STRUCTURE AND PINISHED GRADES.
- ALL HOLES THROUGH FLOORS SHALL BE PATCHED AIPTICHT WITH Appauved Hongohaustidle Material. "Ason contractor shal"...| / Auvid all crases and packets required by other trades.
- ALL PLUMBING AND ELECTRICAL NORN SHALL BE PERFORMED BY A Liclused plumber and licensed electrician respectively.
- ALL FIFE RAYED PARTITIONS SHALL BE CARRIED THROUGH EXISTING " Celling to the underside of the existing structure above, with includer the metal study and gypsum vallboards on both sides.
- FARMICATION AND ERECTION OF ALL STRUCTURAL STEEL NORN SHALL CONFORM TO THE REQUIREMENTS OF SUS-ANTICLE 1005.0 OF THE SIM TROPERODUCER OF THE STEEL CENTIFYING THAT ALL SEREUNED FROM THE-FROMUCER OF THE STEEL CENTIFYING THAT ALL STEEL NEETS THE ACOURCEMENTS AS DEFINED IN SECTIONS C26-1005.0 TO C26-1805.3 INCLUSIVE, OF THE NEW YORK CITY BUILDING CODE.
- ALL STRUCTURAL STEEL SHALL CONFURM TO ASTK-A36. ψ.
- CONTRACTOR TO SUBHIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
- CONTRACTOR SHALL PROVIDE THE CERTIFICATE FOR ALL THE MEMBERS DELIVEND TO THE SITE.
- ALL STOLL MEMBERS SHALL HAVE MINIMUM ONE SHOP COAT OF RUFT-RESISTANT PRIMER AND FIELD TOUCH-UP. FINISH COAT OF PAINT FOR ALL EXPOSED REDISTRS. 22,
- LAST OF CONTROLLED INSPECTION: (A) FIRE STOPFING (B) VENTILATION (C) BUILDING STABILITY. 23.

- RESTORATING OF: HOLLY PARTITIONS AND FURRED SPACES. CONCERLIN SPACES NITHIN STAIR CONSTRUCTION.

- 2. CONCEALED SPACES MITHIN STAIR CONSTRUCTION. 3. CEILING, SPACES 4. CALERIOR COMMICKES. 5. DUCT AND SIDE CHASES. CONCEALE NATIRIALS FOR STRUCTURAL ELEMENTS PROFORTIONED ON THE BASIS OF CALCULATED STRESSES JON OR GREATER OF BASIC ALLOWABLE VALUES. (C-26-1004.0). PLACING OF CONCERTE (TABLE 10-1).
- ALL MATTRIALS, ASSEMBLIES AND METRODS OF CONSTRUCTION RECULATED BY THE COUPAND BY THE JERED ABOVE SHALL BE SUBJET TO SINI-CONTROLLED BY INSPECTION BY THE PERSON SUPERISTING THE CONSTRUCTION, SIGNED COPIES OF ALL TEST HAD INSPECTION REPORTS SHALL FILED TRACKED THE ARCHITECT, WITH THE DEPARTMENT.
- POZIMC OFFENTIONS GHALL BE TO CONTROLLED INSPECTIONS TO DETENTINE -CLASSIFICATION OF THE SOLL. (C16-1112.7)
- INSPECTICS OF SUBCAADE FOR POOTINGS, TOUMCATIONS, FILES AND FOUNDATION MALL SHALL BE INSPECTID BY AN ARCHITECT, ON ENCINEER ATTER EXCAVATION AND IDENDIATELY FRIOT TO CONSTRUCTION OF FOOTING NOTFFICATION SHALL BE GIVEN TO DEPARTMENT OF BUILDINGS AT LEAST THE DAYS PRIOR TO CONSTRUCTION. (C26-1112.5)
- NO FOUNDATION ON EASTIDIOSIC PERMIT SHALL SE ISSUED UNLESS AND UNTIL AT LEAST FIVE DAYS PROOF URITATION SUCCESS THE SECOND AND UNTIL SHALL HARD RELN GUVEN BY THE APPLICANT TO COMMENS OF AND ADDORSING LOTS, ANILITINGS AND SARVICE APPLICANT TO COMMENS OF AND ADDORSING PROPOSED PROJUCTION GOINT OF ADDINAL SHICK NAMES APPENDENT THE PROPOSED PROJUCTION GOINT OF ADDINAL OF ADDINGS (C24-112(3)) 6 TIDES OF THE ANALISIES TO BE PROTECTED INCLUDING RELAYED OF RESULTING

GENERAL NOTES HASONAY BUILDING NEW CODE

- 1. CONTRACTOP SPALL CEPCX AND VERIFT ALL DIMENSIONS, NOTES, AND CONDITIONS AT THE SITE BEFORE ANY CONSTRUCTION HORE IS STARTED.
- AT LEAST 24 ROOMS WRITTEN MOTICE SHALL BE GIVEN TO THE COMME-SLOWER FRIDE TO THE COMMENCEMENT OF ANY HORE AS PER REQUIRE BY ECC. C24-L18.5
- PITE DAYS PRIOR TO WRITTEN HOTICE OF PERSIT APPLICATION STALL BE GIVEN TO THE OWNERS OF ALL ANDONING LOTS, BUILDINGS AND SERVICE PACILITIES WHICH MAY BE APPENTED BY THE FOURDATION WORK OF FARTH WORK OFFRATIONS AS PER SEC. C 24-12.3
- 12. THE SOIL AT THE LEVEL OF FOUNDATION OR FOOTING IS DESIGNED TO CARAY 2 TOTS PER BOURRE FOOT SUBJECT TO VERIFICATION BY IN-SPECTION OF THE SITE AFTER EXCAVATION AND BEFORE FOOTINGS AND BIARTY.
- 5. THE DEPARTMENT SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS PRIOR TO FOUNDATION CONSTRUCTION THAT SUBGRADI IS READY FOR INSMI.FICH AS PER SEC. C26-1112.5
- 6. WHEN EXCAVATIONS ARE S'-OF OR GREATER IN DEPTH FROM THE LEVEL OF ANALENT GROUND, THE SIDES SHALL BE SHORED AS FER SEC. C26-1903.02 (a)
- 7. PROVIDE GUARD RAILS OR PERCE AT EXCAVATIONS AS PER SEC. C26-1903.2
- ESCAVATIONS SHALL BE SUBSTANTIALLY REPT FREE OF WATER DURING FOUNDATION CONSTRUCTION AS PER SEC. 1105.5 8.
- 5. PLAIN CONCRETE- NOTES:

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- PLAIN CONCRETE FOR FOOTINGS AND NAILS SHALL BE PROPORTIONED ON THE BASIS OF CALCULATED STREAMES LESS THAN 70% OF BASIC ALLOWANDE VALUES. LESS THAN 50 CUBIC YANGS OF CONCRETE TO DE POURED; TABLE 10-1, THINFETTING OF WATERALAS AND ASSEMBLIZE; TABLE 10-2, THEFETTING OF METHODS OF CONCRETICATION, BUILDING CODE: TABLE 100(4)- ALLOWABLE STREAMEST IN CONCRETE, ALL STANDARD BUILDING CODE REQUIREMENTS FOR RELEVORCED CONCRETE AS PER ACT SIG-11. STREAMEST IN COMMENT ARE COMPUTED ON THE BASIS OF MONNING STREAM DESIGN.
- B. CONCRETE, MATERIALS, DEFIGN AND CONSTRUCTION SHALL MELT THE REQUIREMENTS OF REFERENCE STANDARD AS 19-3. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE [ACI 310-71]", AS NOT1-FIED BY HEM BUILDING CODE.
- C. COCRETE IS TO BE PROVIDED ON THE BASIS OF A PADOUALIFIED OF PREVIOUSLY ACCEPTED MIX. THE MIX IS TO EXHIBIT A STRENGTS (AT LLAST 230 RIGHER THAN THE SIGCIFIED VALUE. MINIMUM COUNT FACTOR TO COMPLY WITH FALLE 10-1. PRELIMINANT TESTS AS A BASIS FOR A PREUNALIFIED MIX TO COMPLY WITH C26-1004.3 a.3. QUALIFI CONTROL OF CONCRETE IS TO BE PROVIDED AT THE BATCH PLANT. THE RESULTS OF QUALIFY CONTROL AND IMPLCTION AND TO APPEAR ON THE TICKET ACCOMPANYING EACH LOAD OF CONCRETE-C26-1004.3. a.5.
 - COMPRESSIVE STRENGTR OF CONCRETE IS TO BE 2500 PSI AT 23 DAYS.
- E. TRACE CYLINDERS SMALL BE TESTED FER FIFTY CUPIC YARDS OR YPAC-TICH CHEREF FOUNDE ON ANY DAY.
- MAXIMUM TRESION IN POOTING OF PLAIN CONCRETE IS TO BE 70% OF 1.6 P^{+}_{-e} SEC. 2307 (ACI 318-71).
- SHEAR IN FOOTING NOT TO EXCELD 10% OF 2P* (MILCHEVER IS LOW-EN AS SPECIFIED IN SECTIONS 1207-1201 (ACT 118-71).
- THE MATIO OF UNSUPPORTED BEIGHT TO TRICENESS ON THE MATIO OF UNSUPPORTED LENGTH TO TRICENESS ON THE MATIO OF PLAIN CONCENTS WALLS TRICENESS IN IGENTERS FOR MALLS SMALL BE ST SUPERAL NOT EXCEPD 20. FLAIM CONCRETE EXCHED 708 OF 0.25 PC OND THE ALLOWABLE STRESS IN CONCRESSION IMALLS IN 20 OF 0.25 PC OT MALL ANYTHO! A MATIO OF RELEAST TO TRICENESS OF 20. SC TOT MALLS MAYING! A MATIO OF RELEAST NEW BUILDING CODE.
- CONCRETE MATERIAL FOR SHORT SPAN FLUOR CONSTRUCTION TO COM-PLY WITH C26-1004.8.
- J. CONCRETE TRAT IS TO BE SUBJECTED TO FREELING TENFERATURES WHILE MET SUALE MANY A WATER CEMENT RATIO NOT EXCEEDING 6 GALLUNS PER LAG AND IT BRALL CONTAIN ENTRAINED AIR. SEC. 510 (c)- ACI 316-71.
- EXISTING BORINGS ARE TO BE STILLED IN ACCORDANCE WITH SUC.
- SUFT. OF CONSTRUCTION OR ARCHITECT OR EVENHEER RETAINED BY OMMER ACCEPTABLE TO APPLICANT OF RECORDS SHALL FILE SIGNED COFIES OF ALL INSPECTIONS AND TEST REPORTS WITH THE BUILD ING DEPARTMENT INDICATING COMPLIANCE WITH CODE REQUIREMENTS C25-103.35.
- 10. FOUNDATION WALLS TO BE OF FIAIH CONCRETE, SEE NOTE 9, OR APPROVE SOLIS LOAD BEARING CONCRETE BLOCKS TO GRADE AS MAY BE ADQUESTED BY OWNER (FOR FILE FOUNDATIONS, SEE ENGINEERING DRAWINGS).
- 11. FOOTINES 13 BE 6" WIDER OF EITHER SIDE OF WALLS AROVE 12" TRICK AND S" WIDER AN LOT LINES 14" TRICK FOR HOU WALLS AT LOT LINES AND TO BE FLARE CONCENTER, SEE FORE 90 FOR FILE ROUMATIONS, SEE ENGINEERING DRAWINGS.
- ALL POOTINGS TO SE CARRIED AT LEAST 4'-0" BELON ADJACENT FINISHED GROUND LEVEL, BELON BOUSE DRAINS AND BONN TO VINCHA SOLL, [FOR FILLS, SES ENGINEERING DRAWINGS.
- WATERPROOF ING MOTES : FOR CELLAR SHE AMERICAN FORMATION MALLS
- A. SEFORE AND MORENT SCOTING OF FOURIENTING MALES IS APPLIED, ALL SURFACES SHALL BE DRY, CLEMM AND FREE, OF ALL LOOSE NORTAE OR ANY MATERIAL, SEE CUT, AND ALL SPACES ANOTHS SERVICE FIFTS SALL WIRES SEALL SEE CUT AND ALL SPACES ANOTHS SERVICE FIFTS SALL.

THE MATERIAN CONTRACT OF A DECTOORDATION STALL AS ANY LED THEM A LOWER AND A THE INFORMATION STALL AS ANY LED THEM ALL AND ALL ALL AND ALL AND

- 14. NO BACKFILLING ADAINST FOOMMATION WALLS TO BE DONE UNTIL FIRST FILE OF BEAMS AND IN FLACE.
- FRONT AND SIDE WALLS OF END BUILDINGS FROM GRADE TO BE 4" BRICK BACKED UP WITH APPROVED SOLID LOAD BLARING CONCRETE BLOCK TO FIRST TIRES OF BRANS, AND 4" BRICK RACKED UP WITH APPROVED LOAD MEARING TO COMPLY WITH SEC. 7.1 OF RS 10-1.
- 16. ALL PARTY WALL ABOVE FIRST TICK TO BE 4" APPROVED LOAD BEARING CHIDER BLOCKS.
- 17. HORTAR TO COMPLY WITH ASTN C270 1964 AND TABLES PS 19-1-2.

- 16. ALL STIEL DESIGNED FOR A DATE STRESS OF 22,000 PSI AND TO MEET THE REQUIRERENTS OF ADC. 226-1005-1 AND RS 10-5.
- LINTLIS SUPPORTING WALLS OVER 4'-D' SHALL BE FIRE PROTECTED WITH MATERIALS HAVING THE REQUIRED FIRE RESISTIVE RATING OF THE WALL SUPPORTED. SIC. C26-502.4. (2° CEMENT FLASTER WITH WIRE LATR)
- 20. FRONTEE AT LEAST 24 OF COLID HASOMPY UNDER JOISTS AND AT LEAST 4" UNDER BLANE, GIRDERED OR OTHER CONCENTRATED LOADS. 15 10.1. 55C. 10.5.1 AND 10.6.2. BEARING OF JOISTS OR BEARS SERLE DE

AND BE : DETRILT' SUB-ART:

7. ALL CON OF 2.50.

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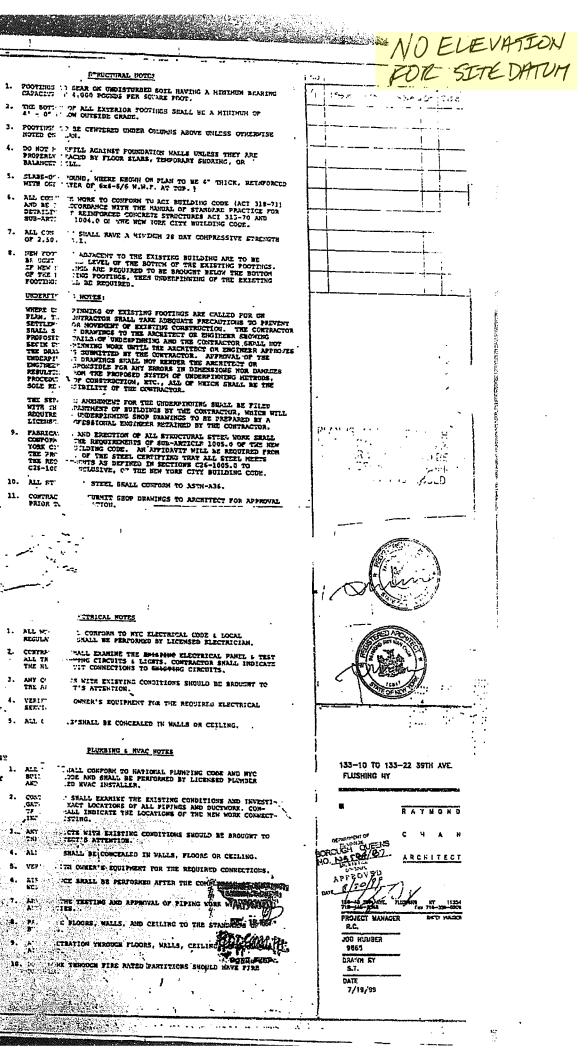
HOTES:

- BLARING PARTITIONS, IF ANT, TO BE OF 2" x 4" STUDS 16" O.C. MITE DOUBLE FINDS AT ENDS OF OPENENGS, BETWEEN 3"-6" AND 6'-0" AND TRIPLE DOUBLE STUDS AT ENL OF OPENENG OF GREATER HIDTE WITH 2" x 4" PLATES AND 2 124 TOP PLATES. DOUBLE BLANE AND SOLT BRIDGING SEAL BE USED BEARING PARTITIONS ALL TO COMPY WITH SEC. C26-1005.6 (4.). PROVINDE 5/4" SHEETROCK, FIRECODE "60" BOTH SIDES OF BEARING PARTITION.
- SUSPENDED CEILINGS SRALL HAVE RANGERS AND SUPPORTING GRIDS OF HONCOMBUSTIBLE MATERIALS, C26-504.12 & RE 5-16.
- INTERIOR FINISHER TO CEMPLY WITH SEC. C26-504-10 & TABLE 5-4. 23.
- CEILINGS OF CELLARS AND ALL FLOORS TO BE FIRISHED WITH 5/8" SREETFOCK FIREDUL "50". .
- BATHROOMS IN BAVE TILED FLOORE AND WAINSCOTE OR AS MAY BE PEOULSING BY GHORE. WALLS ABOVE MAINSCOT TO HAVE B.S.A. APPROVED WALLBOARDE
- WHENE NONCOMBUSTIBLE FIFES AND CONDUITS FASS THROUGH RATED CONSTRUCTION, THE NET ANDA OF SUCH OFFENG HAY NOT EXCEED 75 50.14 IN ANY 120 SO.TT. OF MALL OF FLOOR ANDA. THE FIFE AND HILL BE PACKED WITH BUNCOMBUSTIBLE MATERIAL SUCH AS ROPE ASSESTOR OF HIPERAL WOOL, SEC. C26-304.5.
- 9. PASHICA: CONFORM YOSK C: THE 7MC THE REC C25-100 CONCEALED SPACES, EXCEPT STAITS AND SPAINTLERED SPACES, WITHIN PARTITIONS, VALLS, FLOODE, ROOFS, SINCHS, FURNING, FIFE SPACES, ETC. TEAT MOULD PERMIT PASSAGE OF FLAND, SHORE, FUNIS, OR BOT GAESS FROM ONE FLOOR TO ANOTHER SHALL DE FIRE TUPPED 70 FROM AN EFFECTIVE DUART BARRIER ON SHALL DE FILLED WITH NORCOMBUSTIBLE MATERIAL.SEC. C26-504.7. 10.
- CEILING OPENINGS FOR ELECTRICAL OUTLET SOMES AND RECESSED LIGHTING FIXINES HAN NOT EXCERP 16 50.IN. FOR EACH 90 50.FT. OF CEILING ARA. THE BORES MOST BE OF STEEL AT LEAST .022 IN. THICK. . SEC. 626-502.2 (*).
- DODES ENTERING EACH DEFICE; SHALL RAVE AT LEAST 1 PEEPHOLE OR GLAEED AREA. 19.
- 10. ALL WINDOWS TO HAVE SGN OPENABLE AAZA UNLESS OTHERWISE NOTED ON PLANS.
- VENT FLUES FOR GAS FIRED BOILERS TO BE "AMERI-VENT" AS APPROVED BY 3.5.4. CAL. 134-55-5M. NO DOWN DRAFT CAPS, MEEN INDICATED ON PLA-TO BE "AMERI-CAP" AS APPROVED BY THE B.S.A. CAL1390-52-5M. UNLESS
- 32. HATER DISTRIBUTION STETCH PIPING SRALL &E OP RED RRASS, COPPER PIPE, RAND TEMPER TYPE "R" COOPER TUBING, MARD TEMPER TYPE "L" COOPER TIBING, GLUXNIZED HEOMENT IRON PIPE OR GALVANIZED STEEL PIPE AS PER SEC. PIO2.4(1).
- 1. ALL W PLUMBING VENTS SHALL EXTERD ABOVE ROOF AS PER SEC. P109.4 (a).
- 34. HOUSE DRAINS BELOW GRADE SHALL BE 2'-0" AWAY FROM SIDEWALKS AND ABUVE FOUNDATION WALLS. ALL TH THE NL
- HEATING TO BE AS REQUESTED BY OWNER. INDOOR TEMPERATURE OF 70°F. AT AN OUTDOOR TESPERATURE OF 5°F. AND WIND VELOCITY OF 15 MPR AS PER TABLE 12-1. ANY C' THE AI 36.
- VERIF' ALL MEATING AND AVE TO COMPLY WITH ANT. 12-16 AND S.Y.C. ELEC.
- THE MEATING SYSTEM SHALL BE INSTALLED AS PER WIPA 10B AND TO BE OF GAS NOT WATER MEAT OR STEAM. 5. ALL C
- 30. HAINTAIN CLEARANCES AROUND BEATING EQUIPMENT AS PER NE 14-15.
- ALL ELECTRICAL OUTLETS TO BE AS PER FLANS AND AS MAY BE REQUIRED BY OWNER AND TO HEET ALL REQUIREMENTS OF THE N.Y.C. ELEC. COR. ·39
- ALL ELIVATIONS SMALL BE REFERRED TO C.S. CDAST AND GEODETIC SURVEY "EAM SEA LEVEL DATUM OF 1929 CAL. 26-120.33. 1. 87.7 8011. AKD
- A SURVEY, BY A DULY LICENSED SURVEYOR, SEGNING THE LOCATION OF THE BUILDING AND ALL REQUIRED ELEVATIONS, STALL BE FILLE AS FOR SEC. CIG-LILT 41. 2.
- THE CONTRACTOR MUST GATAIN A C. OF O. DEGN CONCLUTION OF ALL MORK ON THID PLAN TO COMPLE MITH THE BUILDING CODE, SUB. ANTICLE .42.

FONDATION MOTICES TO ADVOINING COMPLEX TO BE COMPLIED MITE AS FER SEC. C24-111.1. S DATE.

FORTING WILLINGS TOTING OF ADORTING PROPERTY OF AND TOOTING ANT TOOTING THE ADORTING PROPERTY FORTING WILL'S UNDERSTANDARD, DECEMPIONING TO BE FILLD CHICK SEPARATE APPLICATION TO ADDINING PROFEST

43. CONTROLLED TREPECTION ITERS: TIRE STOPPING AS PER C28-504.7% BORING SEC. U24-1112.3 FILES SEC. C24-1112.3 (IT REGULAR) STORADOS FOR YOUTHOR, FOUNDATION FILES AND FORMATION WALL SEC. C24-112.5 CONSTRUCTION AFFAIRING SUPPORT OF ADJACKNT FROMEWIES VARUE SECURATION (S MORE TELS 10'0 RELOW LEGUL GRAVE SEC. C24-1112.5



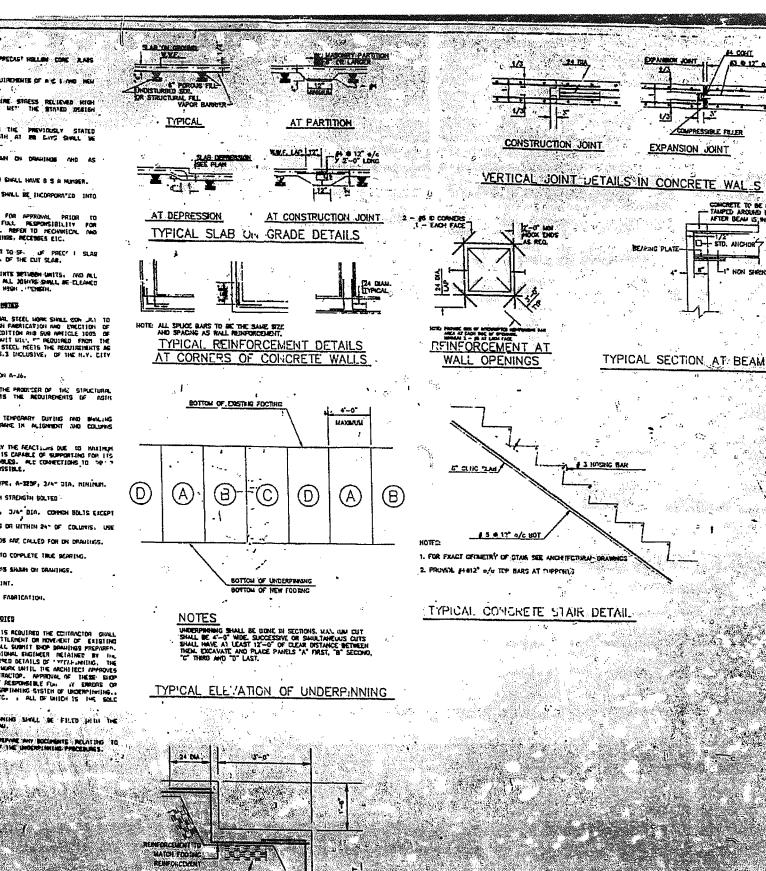
L. FOG	RTINGE TO BEAM ON UNDISTUPSED SOIL HAVING A HEMINET DEADLING CAPACITY OF	
	DO PLADE PER SOUVAE FOOT (3 TOKS).	I. TYPICAL FLOOR AND ROOP SYSTEM SHALL BE & PRECAST ROLLING CONS. RUNS
2. TH Cu	E BOTTON OF ALL EXTERIOR FOOTHAS SHALL BE A BE A NINIMUM OF 4'-O' FEET	THE OF A C THE AND SHOLL CONFINENT TO ALL RECUIREMENTE OF A C 1 MO NEW
80	EVALUES OF BOTT 3 OF FOUTINGS SHOWN ON FOLKDATILL PLAN ARE DASCE ON THE MIDS AND COMPLITUDE THE BEST AVAILABLE INFOLUTION. IT MAY BE MELTSAARY LONGR THE FOUTINGS DUE TO FIELD COMPLITIONS IN DRVACH TO REACH ADCOUNTY	3. PC" FORCENENT SHOLL CONSIST OF HULTIPLE HINE STRESS POLICYED HIGH THINLE STRAND PREIENSIDED IN ACCORDANCE MIT THE STATED PERIEN PROMOTORS.
E E		- CRECKETE INTERTALS SHUL DEFORT WITH THE PREVIDENCY STATED REQUIRERENTS. HIMTHEN COMPRESSIVE EXTENSITE AT BE LINE SHELL WE
	ATTNOS TO RE CENTERED MICH, COLUMN APPLYE MARSS	S. PROVIDE ANOVER IT STRATTOR AN ADDRESS
I Y	PLOUR BLORS, CENFORNITY SHORING OR BALLACED FILL.	The read action of a mar (sing we will be
10 10	THE UP & A & STATISTICS THE VELOCIONING FRIENCE AT DDP. CONSTANCTION SLAD 3 66 STINICS TETREORCED WITH A STATE ALVELOCIONING FRIENCE AT 20. SLADS DE CH. 7 10 BE PLACED ON ALTERNATING CONSCIENTING AND SECURING	4. ALL PRECAST SLARE SHULL BE 2. JR RITED AND SHALL HAVE 8 S A MUNSER. 7. GELL LATES, MACHE INDICATED ON DRAMINGS, SMALL BE INCORPORATED INTO MEMBERS AT THE OF PLACEMENT OF COMPRETE.
	CORCEE 3163	8. CONTRACTOR SHOLL JUDNIT JUDP DAWITNUS FOR APPROVAL PRIOR TO FARICATION. CONTRACTOR SHILL ASSUME FULL RESPONSIBILITY FOR STREAMENEL CONTRACTOR SHILL ASSUME FOLL REPORTED RECORDER. NO
;	ALL CONCRETE WORK SHALL CONFORM TO WITH ACT SUILDING CODE (ACT 218) AND 3E IN ACCORDANCE WITH THE TAWARL OF STANDING PRACTICE FOR DETAILING OF PRIMEMOLT CONCRETE STRUCTURES (ACT 215) AND SUB ATTICLE TOOM OF THE ACH TOMY CITY THE.	ARCHITECTURE, DAMAGER FOR LOCATION OF SHOLL REPORT TO RECOVERING AND ARCHITECTURE, DAMAGER FOR LOCATION OF OPENINGE, RECENSES EIC. 7. ALL BECHINGS LANGER THAN 1/4 PERMINICULAR TO SF. OF PREC' I SLAS SWELL RECEIVE A BIEF. CARER FOR THE SUPPORT OF THE CUT SLAS.
. E. 1	•	10. PRECAST SLASS CONTRACTOR SHALL GROUT ALL JOINT BETWEEN UNITS, IND ALL SPICTS WEEK SLASS NEET SUPPORTING MOMENTS, ALL DOMING SMALL, SE-CLEAKED PRICE TO PLACEMENT OF GABLE, GROUT SHALL BE MEDIC . TO PLACE ALL
1.1	.MENDIN SPECIFIED.	STEWED/COLL STREET, METERS
``	CONDETE AND ACDEGATES TO CONFORM ID ING FOLLOW: S STANDADDS: A. PORTIGNO CCHEMI AS PER ASTM . 30. B. AIR SAIRAINING PORTIGNO COMENT S. PER ASTM (173.	1. FAMILICATION AND EDECTION OF ALL ETHERLARD, STEEL MONE SHALL SON
	C. CONCRETA AUTOLATIS AS PLA META C22, D. INTER SMUL PERFECTAN DELEM FROM INTERIC "I MODAN'S UF SILE, ACIDS, ALKALIS, SALTS, ORCATIC MATTER FIC. E. ALL REIMFORCEM FINAS TO CONFORM TO ADTI ASIS, GANGE 40 AND VELAGO K.RE FABRIC. TO ASTH ARE AND AUG.	ATTELTIONAL STEEL CONTINUE FOR THE DESCRIPTION AND SHORE OFFICIAL TO THE LAY, CITY BUILDING CODE, AN APPIDENTIA AND SHORE ANTICLE JOS THE LAY, CITY BUILDING CODE, AN APPIDENTIALL, "REQUIRED FROM THEORY OF THE STEEL CERTIFYING THAT ALL STEEL REST. THE REQUIREMENTS DEFINED IN SECTIONS CODE. STIC CODE. STIC CODE IN SECTION OF THE N.Y. CI BUILDING CODE.
5,	THE MINIMUM NUMBER OF BAGS OF CSMENT FOR CUBIC YARD SHALL BE 6.50. 1HC	2. ALL STEES, SWILL CONFORM TO ASTH BESIGNATION A-J6.
	INTER TEST CYLINDERS TYAL BE HOULDED FOR EACH FIFTY ISOT CUBIC WARDS OF FACTOR DEFECTS ACTU STATUS AND AN END CON STATUS SWAL BE TANGH DIFECTLY	3. CONTRACTOR SHALL FILE AN AFFIDAVIT FROM THE PRODUCER OF THE SIPULTUR BTOLL CERTIFYING THAT THE SIEEL REETS THE RECUTREMENTS OF AS DESIGNATION AF3.
l ·	FROM THE HITE'S -ER ASTR C172, CUPCO AS FER AND COLORY THEORY DUPETTY 28 Onts as fer astr C29, all testingAll ye and by a light being testing Ladoanday, reports and to be filed with the building espanthent as fer H City cose.	4. CONTINUED BHALL PROVIDE ALL NECESSARY TEMPORARY DUTING IND BHAL MEDUIRED TO DEET AND FACTINE JAL FRANC IN ALLOWEDT JND COLUM FLUME, UNTIL DEEX AND HALLSIARE IN PLACE.
	ALL SLABS ARE TO FINISHED AS PER ARCHITECTURAL BRANINGS. DROUT FON STEEL C'LINKS TO BE NON-SPOLING.	5. AL COMMETIDES TO BE ADSOUGHE TO CAURY THE REACTIONS DUE TO MOLTI IMIFORMENT BISTRIBUTED LONG THAT THE BEAM IS CARACLE OF SUMMONTAINS FOR SPAN MARKS OWING A.I.S.C. SHEE LUDD TABLES. ALL COMPETIDES TO DO SHARE TRANSPORT CONSTITUENT WHEN AND ALL COMPETIDES TO DO
	HE HERIZONTINE CONSTRUCTION JOINTS SHALL OF PERMITTED.	MALE STANDARD SHEAR CONCECTIONS WHERE POSSIBLE.
.1	FLANDATION WILLS AND GRADE BEARS SAMLE BE KATCHPRODEL " ATTH A TROULL COAT	7. ALL SHOP CONNECTIONS TO BE HOUSED ON HIGH STRENGTH BOLTED
<u>1</u> 1.	DAREA ANDIOR CONTACTOR SHALL RETAIN A TESTING LARCRATCRY AND A LICCOSED ANDERSIDIAL TO PROVIDE CONTROLLED INSTLATIONS AND ALL CONCESSE ILSTAND. THIS OFFICE HAS NOT BEEN ENGAGED TO SUPERVISE CONSTRUCTION.	9. FIELD CONVENTIONS HAV DE NADE HITH A-307, 3/4 DIA. CONVON HOLIS EIC AF FOLIAME. A. 939 JUNIOUS FAMILING INIG COLUMNS OR WITHIN 24" OF COLUMNS. HIGH ETECNTIN 20175.
	Peluidecing Bar Holes	8. SHERE HIGH BERENGTH BCLTS OR WELDS ARE CALLED FOR ON DRAUMOS.
7 1.	ALL' CONTINUERS RE" FORCING BARE TO BE LUPPED IN DAA DIA. AT SPLICES was	
· 1	CONVERS, UNLESS OTHERHIGE INDICATED, LEP CONTINUES TOP HADS AT FENTER	1. BEARING THAT OF COLUMNS SHALL WE HILLED TO COMPLETE THUE BEARING.
	CONSERVE, UALESS DIACTINESS (NOICAIDS, LAP'CONTINUOUS TOP DAYS AT CENTOR INGINESS USPORTISI AND BOTTON BARK AT SUPPORTS, 'TENTANEE CONTINUUSS BARS AT MON-CONTINUOUS ENDS 41TH STANDARD MODES., SPLICES SPACED LODGER HANK 15 SAD DIA, TO FADE DINGE DA AT FROM ANY DUDIES FOR SUML BE UNFORMED TO	28. PROVIDE MARCHINE AND ORS HE REQUIRED AND AS SHARN ON DRAWINGS.
	CONTACTS, UPLESS DISERNISE INCIGATED. LCP"CONTINUOUS TOP DAYS AT CENTER THETHETH SUPPORTS: AND BOTTON BAAS AT SUPPORTS. TERMINATE CONTINUES BAAS AT MON-CONTINUED ENDS WITH STANDARD MODES. SPLICES SPACED DINGED DI	28. PROVIDE MARKAY AND GRS WI REQUIRED AND AS SHARM ON DRAWINGS.
2.	COMMENT, UNLESS DIMETRISSE HOLEAIDD. LEMP CONTINUEDS TOP DANS AT CENTER HER LINED HERPORTIDS HAND BOTTON HANN AT SUPPORTS. TOPHLANES CONTINUESS BARE AT MON-CONTINUEDE BODS WITH STANDARD HODDS. SPLICES SPACED LLOSER THAN: IN SAN DIA. TO FADA DINGN DR AT FROM ANY DUISIDE EDGE SHALL BE INCTEADED TO 3 SAN DIA. IEDXX. PROVIDE LORACE BARS AT MALL INTERSECTIONS.	26. PROVIDE MARKAY AND GAS WE REQUIRED AND AS SHARM ON DRAWINGS. 11. ALL STORE TO RECEIVE ONE SHOP COAT OF PAINT. 12. SUBMIT SHOP ORWINKE FOR APPROVAL BEFORE FARMICATION. UNDERLIMIND POIRS
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